MATERIAL SAFETY DATA SHEET

Dyna-Solv Heavy Duty Degreaser

Section I



CHEMICALS & EQUIPMENT, INC.

2902 East X Street Deer Park, Texas 77536 Toll Free 877-644-1492 Emergency Telephone Number (281) 542-5000

Telephone Number for Information (281) 542-5000

Date Prepared 3-25-13

Section II — Hazardous Ingredients/Identity Information

Hazardous Components			Other Limits	
(Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Recommended	% (optional)
Butoxyethanol (CAS# 111-76-2)	25ppm	25ppm	N/A	
Sodium Metasilicate (CAS# 6834-92-0)	2 mg/m^3	2 mg/m^3	N/A	
Potassium Hydroxide (CAS# 6834-92-0)	2 mg/m^3	2 mg/m^3	N/A	
Sodium Hydroxide (CAS# 1310-73-2)	2 mg/m^3	2 mg/m^3	N/A	

Section III — Physical/Chemical Characteristics			
Boiling Point	205°F	Specific Gravity (H ₂ O =1)	1.073
Vapor Pressure (mm Hg.)	<0.1	Melting Point	Liquid
Vapor Density (AIR = 1)	>5	Evaporation Rate (Butyl Acetate = 1)	>5

Solubility in Water Completely, 100% Soluble in Water

Appearance and Odor Blue liquid with the citrus solvent odor

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Pensky-Marten's Closed Cup		1.0	10.0

Extinguishing Media

Water, Class C, Foam

Special Fire Fighting Procedures None Known

Unusual Fire and Explosion Hazards

None Known - Non Flammable

Section V — R	eactivity Data			
Stability	Unstable		Conditions to Avoid	
	Stable	Х		
Hazardous Polymerization	May Occur Will Not Occur	X	Conditions to Avoid Oxidizers	
Section VI —	Health Hazard Data	a		
Route(s) of Entry	Inhalatio	n? X	Skin? X	Ingestion? X
SKIN: May cause r chap sensitive skin INGESTION: Naus	discomfort, injury, and burns, noderate to severe irritation t as would detergent and caust sea and vomiting, upset stoma of expected to be a relevant ro pset stomach. NTP?	o skin. Re ic exposu ach. GI tra oute of exp	act tissue damage. posure. May be irritating or damaging to the no IARC Monographs?	se, throat, and upper respiratory OSHA Regulated?
	Not Know	vn	Not Known	Not Known
Signs and Symptoms	s of Exposure			

Eye irritation sign and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Dermatitis signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.

Medical Conditions (Generally Aggravated by Exposure)

Pre-existing skin and eye disorders may be aggravated by exposure. Symptoms similar to burns.

Emergency and First Aid Procedures

SKIN: Wash with soap and plenty of water. Remove contaminated clothing, including shoes, after flushing has begun. Get prompt medical attention. Do not reuse until thoroughly cleaned or laundered.

EYES: Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Get prompt medical attention. INHALATION: Immediately remove the affected victim from exposure to fresh air. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

INGESTION: DO NOT INDUCE VOMITING. Get Medical Attention.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Stop Release or Spill. SMALL SPILL: For a small spill, take up material with an absorbent such as clay or sand and dispose of properly per local, state, and federal regulations.

LARGE SPILL: Wear respirator and protective clothing as appropriate. Shut off source of leak. Dike and contain spilled material. Remove with vacuum trucks or pump to storage/salvage containers. Soak up residue with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Consult an expert on disposal of recovered material and ensure conformity to local, state, and federal regulations.

Waste Disposal Method

Any approved method for dilute cleaner, surfactants are highly biodegradable. Dispose in accordance to local, state, and federal regulations.

Precautions to Be Taken in Handling and Storing

Keep container closed. Handle and open container with care. Store in a cool, well vented location. Place away from incompatible materials. Do NOT reuse empty containers without commercial cleaning or reconditioning.

Storage Temperature: 70°F minimum to 125°F maximum

Loading Temperature: 70°F minimum to 150°F maximum

Other Precautions

Section VIII — Control Measures

Respiratory Protection (Specify Type): Not required unless product mist or vapor is created.

Use a NIOSH-Approved respirator as required to prevent overexposure. In accord with 20CFR 1910.134, use either atmosphere-supplying or air-purifying respirator for organic vapors. For EO: If occupational exposure may or does exceed 1 ppm, respiratory protection is required. Use a NIOSH-Approved, atmosphere-supplying, full face piece respirator in pressure demand mode >10 ppm. NIOSH has approved full face-piece canister respirator with an end of service life indicator for >10ppm.

Ventilation	Local Exhaust	Special	
	Recommended		
	Mechanical (General)	Other	
	Recommended		

Eye Protection

Safety glasses with side shields or chemical goggles face shield

Protective Gloves

Nitrile/Neoprene

Other Protective Clothing or Equipment

Clean. Long-sleeved clothing, Rubber boots

Work/Hygiene Practices

Avoid contact with eyes, skin, and clothing. Where contact may occur, wear long sleeves, chemical resistant gloves (nitrile or neoprene), goggles, and face shield. Where concentrations in air may exceed the limits provided in this section, NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation. Wash all contaminated clothing before re-use.

Section IX — Toxicology

Carcinogenicity: None of the components have been identified as carcinogen by NTP, IARC, or OSHA.

Section X — Ecological Information

This product is biodegradable. No data available for this product.

Section XI — Transportation Information

The data provided in this section is for information only. The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate regulations to properly classify your shipment for transportation.

Proper Shipping Name:	Hazardous cleaning	compound, liquid, non-regulated by 49CFR.
Reportable Quantity:		1000 lb.
Hazard Class and Label:	8	
UN Number:		Not assigned
NA Number:		Not assigned
ERG:		1000 lb.

Section XII — Regulatory Information

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA):

The following components of this product are specifically listed as hazardous substances in 40 CFR 302.4 and are present at levels which could require reporting:

Component	CAS #
Butoxyethanol	111-76-2
Sodium Metasilicate	6834-92-0
Potassium Hydroxide	6834-92-0
Sodium Hydroxide	1310-73-2
5	

Superfund Amendments and Reauthorization Act of 1986 (SARA):

Title III Sections 302 and 304 - Extremely Hazardous Substances:

Component	CAS #
Butoxyethanol	111-76-2
Sodium Metasilicate	6834-92-0
Potassium Hydroxide	6834-92-0
Sodium Hydroxide	1310-73-2

Title III - Section 313 Reportable Chemical

Component	CAS #	Reportable Limit
Butoxyethanol	111-76-2	1000 lb.
Sodium Metasilicate	6834-92-0	Not Regulated
Potassium Hydroxide	6834-92-0	360 lb.
Sodium Hydroxide	1310-73-2	1000 lb.

Title III – Section 311 and 312

	<u>Component</u>
	Butoxyethanol
Delayed hazard:	No
Fire hazard:	Yes
Immediate health hazard	Yes
Reactive hazard	No
Sudden release of pressure hazard	No
	Sodium Metasilicate
Delayed hazard:	No
Fire hazard:	No
Immediate health hazard	Yes
Reactive hazard	No
Sudden release of pressure hazard	No

Delayed hazard:
Fire hazard:
Immediate health hazard
Reactive hazard
Sudden release of pressure hazard

Potassium Hydroxide
No
No
Yes
No
No

	Sodium Hydroxide
Delayed hazard:	No
Fire hazard:	No
Immediate health hazard	Yes
Reactive hazard	No
Sudden release of pressure hazard	No

TSCA Status: All components in this product are listed on the TSCA inventory.

Section XIII — Additional Information

NFPA:Health = 3, Flammability = 2, Reactivity = 0HMIS:Health = 3, Flammability = 2, Reactivity = 0

Personal Protection: B